Applicant | James A. Laugharn, Jr. et al. Attorney's Docket No.: 07985-031002

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

 (Previously presented) A method for sterilizing a material, the method comprising:

providing said material at an initial pressure; and

while maintaining said material in a temperature range that is below 45°C, increasing the pressure to an elevated pressure, then decreasing the pressure below the elevated pressure, and cycling the pressure between a decreased pressure and the elevated pressure at least two times, thereby providing a sterilized material.

- (Original) The method of claim 1, wherein the material is provided at an initial pressure of about 1 atm.
 - 3-5. (Canceled).
- (Original) The method of claim 1, wherein the elevated pressure is in the range of about 5,000 psi to about 120,000 psi.
- (Currently amended) The method of claim 1, wherein the <u>material</u>
 <u>comprises a desired biomolecule is-selected from the group consisting of nucleic acids, proteins, lipids, carbohydrates, drugs, steroids, and nutrients.
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 - 8. (Canceled).

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 (Previously presented) The method of claim 1, wherein the pressure is evoled at least ten times.

- (Previously presented) The method of claim 1, wherein the decreased pressure is half of the elevated pressure or less.
- (Original) The method of claim 1, further comprising warming or cooling the material prior to the pressure-increasing step.
- (Original) The method of claim 1, further comprising warming or cooling the material after the pressure-increasing step.
- 13. (Original) The method of claim 1, wherein the material being sterilized is selected from the group consisting of a biological sample; blood plasma, serum, or other plant, animal, or human tissue; feces; urine; sputum; medical or military equipment; a foodstuff; a pharmaceutical preparation; ascites; and a vaccine.
- 14. (Previously presented) The method of claim 1, wherein the material being sterilized is initially contaminated with at least one of a prion, a virus, a fungus, a protist, a nucleic acid, and a protein.

15-31. (Canceled)

- (Original) The method of claim 1 or claim 14 in which the sterilized material comprises a desired materiomoleculemacromolecule.
- 33. (Currently amended) The method of claim 32 in which the desired macromolecule has a biological activity that is maintained in the sterilized material produced by the method.

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34. (Currently amended) The method of claim 32 in which the macromolecule is a protein.

(Currently amended) The method of claim 32 in which the sterilized 35. material comprises an infectious agent, which is a virus.